

AMENDMENTS

IN THE CLAIMS:

Please cancel claims 1 and 10, and amend claims 2, 3, 4, 6, 11, 13, 14 and 16 as provided below:

1. (Canceled)
2. (Currently amended) A ferroelectric memory cell, comprising:
a ferroelectric capacitor formed in a capacitor layer above a semiconductor body;
a cell transistor comprising:
first and second source/drains formed in an active region of the
semiconductor body, the active region extending along a first axis in the
semiconductor body, and
a gate electrically coupled with a wordline structure that extends along a
second axis, wherein the first axis and the second axis are oblique; and
~~The ferroelectric memory cell of claim 1, wherein the ferroelectric capacitor is~~
~~formed in a capacitor layer above the semiconductor body, the ferroelectric memory cell~~
~~comprising~~
a bitline contact coupled with the second source/drain and extending from
beneath the capacitor layer to a layer above the capacitor layer, the bitline contact
passing through the capacitor layer proximate a corner of the ferroelectric capacitor.
3. (Currently amended) The ferroelectric memory cell of ~~claim 1,~~ claim 2,
wherein the active region is straight.
4. (Withdrawn and currently amended) The ferroelectric memory cell of ~~claim~~
~~4,~~ claim 2, wherein the active region is curved.
5. (Withdrawn) The ferroelectric memory cell of claim 4, wherein the active
region is S-shaped.

6. (Currently amended) The ferroelectric memory cell of ~~claim 1~~, claim 2, wherein the first axis passes through first and second ends of the active region.

7. (Withdrawn) The ferroelectric memory cell of claim 6, wherein a first portion of the active region extends substantially perpendicular to the second axis.

8. (Withdrawn) The ferroelectric memory cell of claim 7, wherein a second portion of the active region extends substantially parallel to the second axis.

9. (Withdrawn) The ferroelectric memory cell of claim 6, wherein a portion of the active region extends substantially parallel to the second axis.

10. (Canceled)

11. (Currently amended) A ferroelectric memory array, comprising:
a plurality of ferroelectric memory cells accessible along a plurality of bitlines
using a plurality of plateline signals and a plurality of wordline signals for storing data,
the ferroelectric memory cells individually comprising:
a ferroelectric capacitor formed in a capacitor layer above a semiconductor body;
a cell transistor comprising:
a first source/drain formed in an active region of a semiconductor body,
the active region extending along a first axis in the semiconductor body, the first
source/drain being electrically coupled with the ferroelectric capacitor;
a second source/drain formed in the active region, the second
source/drain being electrically coupled with a bitline structure, and
a gate electrically coupled with a wordline structure that extends along a
second axis, wherein the first axis and the second axis are oblique; and
~~The ferroelectric memory array of claim 10, wherein the individual memory cells~~

comprise

a bitline contact coupling the second source/drain to the bitline structure, wherein the bitline contact extends from beneath the capacitor layer to a layer above the capacitor and passes through the capacitor layer proximate a corner of the ferroelectric capacitor.

12. (Original) The ferroelectric memory array of claim 11, wherein the active regions are shared by two adjacent cell transistors in the array.

13. (Currently amended) The ferroelectric memory array of ~~claim 10~~, claim 11, wherein the active regions are straight.

14. (Withdrawn and currently amended) The ferroelectric memory array of ~~claim 10~~, claim 11, wherein the active regions are curved.

15. (Withdrawn) The ferroelectric memory array of claim 14, wherein the active regions are S-shaped.

16. (Currently amended) The ferroelectric memory array of ~~claim 10~~, claim 11, wherein the first axes of the individual active regions pass through first and second ends of a corresponding active region in the array.

17. (Withdrawn) The ferroelectric memory array of claim 16, wherein first portions of the individual active regions extend substantially perpendicular to the second axis.

18. (Withdrawn) The ferroelectric memory array of claim 17, wherein second portions of the individual active regions extend substantially parallel to the second axis.

19. (Withdrawn) The ferroelectric memory array of claim 16, wherein portions of the individual active regions extend substantially parallel to the second axis.

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Canceled)